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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
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MERCHANT & GOULD PC			NGUYEN, LINH THI	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Assis - O	10/521,630	UEDA ET AL.				
Office Action Summary	Examiner	Art Unit .				
	Linh T. Nguyen	2627				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Stațus						
1) Responsive to communication(s) filed on <u>01 September 2006</u> . 2a) This action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Settion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being unpatentable by Kaneko (JP Patent Number 61145743).

In regards to claim 1, Kaneko discloses a deficiency detecting apparatus (Fig. 1), which detects deficiencies on an information medium that are unable to be recorded or reproduced when an information signal is recorded/reproduced with respect to the information medium using a light beam generated by a laser light source (Fig. 1, element 4), comprising: a power adjusting section for adjusting an emitting power of the laser light source to an optimum value (Fig. 1, element 13); and a deficiency detecting section for comparing (Fig. 1, element 14) a threshold value (Fig. 4) determined in accordance with the emitting power of the laser light source adjusted by the power adjusting section with a value corresponding to reflected light that is the light beam reflected by an information layer of the information medium (Page 7, lines 7-12; the detection signal (1) is obtained by detecting the change in the amount of laser beam (refer to page 4, lines 8-10)), and detecting the deficiencies on the information layer in accordance with a result of the comparison (Page 7, lines 13-15).

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In regards to claim 2, Kaneko discloses a deficiency detecting apparatus, wherein the deficiency detecting section determines the threshold value (Fig. 4) in accordance with an emitting power (Page 7, lines 7-12; the detection signal can either reach from level 1 to 5 within the range of the curve shown in fig.4) selected from a predetermined range of laser power (Page 4, lines 4-11; shows the range of power for reproducing/recording power).

In regards to claim 3, Kaneko discloses a deficiency detecting apparatus, wherein the deficiency detecting section determines the threshold value (level) in accordance with an average value of the emitting power adjusted by the power adjusting section (Fig. 4, shows a center line which corresponds to the average value and then deviates from the center of line).

In regards to claim 4, Kaneko discloses a deficiency detecting apparatus, wherein the emitting power adjusted by the power adjusting section is composed of plural power levels (Page 4, lines 4-7), and the deficiency detecting section determines the threshold value in accordance with the value obtained by summing the plural power levels at predetermined rates (Fig. 2, element 12).

In regards to claim 5, Kaneko discloses a deficiency detecting apparatus, wherein the emitting power adjusted by the power adjusting section is composed of plural power levels (Page, 4, lines 4-7), and the deficiency detecting section determines the threshold value in accordance with the highest power level among the plural power levels (Fig. 4, level 5).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kaneko in view of Kawashima et al (US Publication number 2003/0133378). For a description of Kaneko see the rejection, supra.

In regards to claim 6, Kaneko discloses a deficiency detecting apparatus, wherein the emitting power adjusted by the power adjusting section is composed of plural power levels (Fig. 2, shows plural power levels), and the deficiency detecting section (controller 1) determines the threshold value (Fig. 4).

Kaneko does not but Kawashima et al discloses an apparatus, wherein determines the threshold value in accordance with an erasing power level that is used for erasing among the plural power levels (Fig. 13A-B). At the time of the invention it would have been obvious to a person of ordinary skill in the art to modify Kaneko apparatus to have an erase power level in determining a defect threshold value. The motivation for doing so would have been to improve the recording/reproducing by detecting an area of the deteriorated recording film due to defect.

Claims 7-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaneko in view of Hiroshi et al (JP Publication number 09115142).

In regards to claim 7, Kaneko discloses a deficiency detecting apparatus, which detects deficiencies on an information medium that are unable to be recorded or reproduced when an information signal is recorded/reproduced with respect to the information medium using a light beam generated by laser light source (Fig. 1 and 2), comprising: a power adjusting section for adjusting an emitting power of the laser light source to an optimum value (Fig. 1 or 2, element 13); and a deficiency detecting section (controller 1), and for comparing (Fig. 1 or 2, element 14) a value corresponding to the signal for the reflected light amount with a predetermined threshold value (Fig. 4) and detecting the deficiencies on the information layer in accordance with a result of the comparison (Page 7, 13-15). However, Kaneko et al does not disclose an amplifier for amplifying a signal corresponding to reflected light that is the light beam reflected by an information layer of the information medium at an amplification factor determined in accordance with the emitting power of the laser light source amount. In the same field of endeavor, Hiroshi et al discloses an amplifier (Fig. 1, elements 13, 14 and 15) for amplifying a signal corresponding to reflected light that is the light beam reflected by an information layer of the information medium at an amplification factor determined in accordance with the emitting power of the laser light source amount (Paragraph [0011]). At the time of the invention it would have been obvious to a person of ordinary skill in the art to modify the deficiency detection apparatus of Kaneko to

include an amplifier as taught by Hiroshi et al. The motivation for doing so would have been to detect fluctuation in the signal.

In regards to claim 8, Kaneko discloses a deficiency detecting apparatus, wherein the deficiency detecting section determines the threshold value (Fig. 4) in accordance with an emitting power (Page 7, lines 7-12; the detection signal can either reach from level 1 to 5 within the range of the curve shown in fig.4) selected from a predetermined range of laser power (Page 4, lines 4-11; shows the range of power for reproducing/recording power).

In regards to claim 9, Kaneko discloses a deficiency detecting apparatus, wherein the deficiency detecting section determines the threshold value (level) in accordance with an average value of the emitting power adjusted by the power adjusting section (Fig. 4, shows a center line which corresponds to the average value and then deviates from the center of line).

In regards to claim10, Kaneko discloses a deficiency detecting apparatus, wherein the emitting power adjusted by the power adjusting section is composed of plural power levels (Page 4, lines 4-7), and the deficiency detecting section determines the threshold value in accordance with the value obtained by summing the plural power levels at predetermined rates (Fig. 2, element 12).

In regards to claim 11, Kaneko discloses a deficiency detecting apparatus, wherein the emitting power adjusted by the power adjusting section is composed of plural power levels (Page, 4, lines 4-7), and the deficiency detecting section determines

the threshold value in accordance with the highest power level among the plural power levels (Fig. 4, level 5).

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Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kaneko in view of Hiroshi et al (JP Publication number 09115142) as claim 7 above and in further view of Kawashima et al (US Publication number 2003/0133378).

In regards to claim 12, Kaneko discloses a deficiency detecting apparatus, wherein the emitting power adjusted by the power adjusting section is composed of plural power levels (Fig. 2, shows plural power levels), and the deficiency detecting section (controller 1) determines the threshold value (Fig. 4).

Kaneko and Hiroshi et al do not but Kawashima et al discloses an apparatus, wherein determines the threshold value in accordance with an erasing power level that is used for erasing among the plural power levels (Fig. 13A-B). At the time of the invention it would have been obvious to a person of ordinary skill in the art to modify Kaneko and Hiroshi et al apparatus to have an erase power level in determining a defect threshold value. The motivation for doing so would have been to improve the recording/reproducing by detecting an area of the deteriorated recording film due to defect.

Response to Arguments

Applicant's arguments, see page 3, lines 24-28, filed 09/01/06, with respect to the rejection(s) of claim(s) 1 and 7 under Kaneko et al have been fully considered and

are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Kaneko (JP Patent number 61-145743).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh T. Nguyen whose telephone number is 571-272-5513. The examiner can normally be reached on 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, A. Wellington can be reached on 571-272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

November 12, 2006

SUPERVISORY PATENT EXAMINER

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